

Class	Subclass
-------	----------

**ISSUE CLASSIFICATION**

PATENT NUMBER

**U.S. UTILITY Patent Application**

**O.I.P.E.**

**PATENT DATE**

AK  
BCANNE

NS 4 9A

✓

APPLICATION NO. 09/704724	CONT/PRIOR F	CLASS 358	SUBCLASS 1.8	ART UNIT 2651	EXAMINER D. Jones J. L. AMB
------------------------------	-----------------	--------------	-----------------	------------------	-----------------------------------

Yoshiharu Sasaki  
Mitsuru Sawano

2622

TITLE	APPLICANTS
1. <b>Chairman</b>	1. <b>Mr. J. Edgar Hoover</b>
2. <b>Vice Chairman</b>	2. <b>Mr. J. Lee Rankin</b>
3. <b>Members</b>	3. <b>Mr. J. Lee Rankin</b>
	4. <b>Mr. J. Lee Rankin</b>
	5. <b>Mr. J. Lee Rankin</b>
	6. <b>Mr. J. Lee Rankin</b>
	7. <b>Mr. J. Lee Rankin</b>
	8. <b>Mr. J. Lee Rankin</b>
	9. <b>Mr. J. Lee Rankin</b>
	10. <b>Mr. J. Lee Rankin</b>
	11. <b>Mr. J. Lee Rankin</b>
	12. <b>Mr. J. Lee Rankin</b>
	13. <b>Mr. J. Lee Rankin</b>
	14. <b>Mr. J. Lee Rankin</b>
	15. <b>Mr. J. Lee Rankin</b>
	16. <b>Mr. J. Lee Rankin</b>
	17. <b>Mr. J. Lee Rankin</b>
	18. <b>Mr. J. Lee Rankin</b>
	19. <b>Mr. J. Lee Rankin</b>
	20. <b>Mr. J. Lee Rankin</b>
	21. <b>Mr. J. Lee Rankin</b>
	22. <b>Mr. J. Lee Rankin</b>
	23. <b>Mr. J. Lee Rankin</b>
	24. <b>Mr. J. Lee Rankin</b>
	25. <b>Mr. J. Lee Rankin</b>
	26. <b>Mr. J. Lee Rankin</b>
	27. <b>Mr. J. Lee Rankin</b>
	28. <b>Mr. J. Lee Rankin</b>
	29. <b>Mr. J. Lee Rankin</b>
	30. <b>Mr. J. Lee Rankin</b>
	31. <b>Mr. J. Lee Rankin</b>
	32. <b>Mr. J. Lee Rankin</b>
	33. <b>Mr. J. Lee Rankin</b>
	34. <b>Mr. J. Lee Rankin</b>
	35. <b>Mr. J. Lee Rankin</b>
	36. <b>Mr. J. Lee Rankin</b>
	37. <b>Mr. J. Lee Rankin</b>
	38. <b>Mr. J. Lee Rankin</b>
	39. <b>Mr. J. Lee Rankin</b>
	40. <b>Mr. J. Lee Rankin</b>
	41. <b>Mr. J. Lee Rankin</b>
	42. <b>Mr. J. Lee Rankin</b>
	43. <b>Mr. J. Lee Rankin</b>
	44. <b>Mr. J. Lee Rankin</b>
	45. <b>Mr. J. Lee Rankin</b>
	46. <b>Mr. J. Lee Rankin</b>
	47. <b>Mr. J. Lee Rankin</b>
	48. <b>Mr. J. Lee Rankin</b>
	49. <b>Mr. J. Lee Rankin</b>
	50. <b>Mr. J. Lee Rankin</b>
	51. <b>Mr. J. Lee Rankin</b>
	52. <b>Mr. J. Lee Rankin</b>
	53. <b>Mr. J. Lee Rankin</b>
	54. <b>Mr. J. Lee Rankin</b>
	55. <b>Mr. J. Lee Rankin</b>
	56. <b>Mr. J. Lee Rankin</b>
	57. <b>Mr. J. Lee Rankin</b>
	58. <b>Mr. J. Lee Rankin</b>
	59. <b>Mr. J. Lee Rankin</b>
	60. <b>Mr. J. Lee Rankin</b>
	61. <b>Mr. J. Lee Rankin</b>
	62. <b>Mr. J. Lee Rankin</b>
	63. <b>Mr. J. Lee Rankin</b>
	64. <b>Mr. J. Lee Rankin</b>
	65. <b>Mr. J. Lee Rankin</b>
	66. <b>Mr. J. Lee Rankin</b>
	67. <b>Mr. J. Lee Rankin</b>
	68. <b>Mr. J. Lee Rankin</b>
	69. <b>Mr. J. Lee Rankin</b>
	70. <b>Mr. J. Lee Rankin</b>
	71. <b>Mr. J. Lee Rankin</b>
	72. <b>Mr. J. Lee Rankin</b>
	73. <b>Mr. J. Lee Rankin</b>
	74. <b>Mr. J. Lee Rankin</b>
	75. <b>Mr. J. Lee Rankin</b>
	76. <b>Mr. J. Lee Rankin</b>
	77. <b>Mr. J. Lee Rankin</b>
	78. <b>Mr. J. Lee Rankin</b>
	79. <b>Mr. J. Lee Rankin</b>
	80. <b>Mr. J. Lee Rankin</b>
	81. <b>Mr. J. Lee Rankin</b>
	82. <b>Mr. J. Lee Rankin</b>
	83. <b>Mr. J. Lee Rankin</b>
	84. <b>Mr. J. Lee Rankin</b>
	85. <b>Mr. J. Lee Rankin</b>
	86. <b>Mr. J. Lee Rankin</b>
	87. <b>Mr. J. Lee Rankin</b>
	88. <b>Mr. J. Lee Rankin</b>
	89. <b>Mr. J. Lee Rankin</b>
	90. <b>Mr. J. Lee Rankin</b>
	91. <b>Mr. J. Lee Rankin</b>
	92. <b>Mr. J. Lee Rankin</b>
	93. <b>Mr. J. Lee Rankin</b>
	94. <b>Mr. J. Lee Rankin</b>
	95. <b>Mr. J. Lee Rankin</b>
	96. <b>Mr. J. Lee Rankin</b>
	97. <b>Mr. J. Lee Rankin</b>
	98. <b>Mr. J. Lee Rankin</b>
	99. <b>Mr. J. Lee Rankin</b>
	100. <b>Mr. J. Lee Rankin</b>

Received 11/13/01

**BEST AVAILABLE COPY**

PTO-2040  
12/89[illegible]

<input type="checkbox"/> <b>TERMINAL DISCLAIMER</b>	<b>DRAWINGS</b>			<b>CLAIMS ALLOWED</b>	
	Sheets Drwg.	Figs. Drwg.	Print Fig.	Total Claims	Print Claim for O.G.
<input type="checkbox"/> The term of this patent subsequent to _____ (date) has been disclaimed.	_____ (Assistant Examiner) (Date)			<b>NOTICE OF ALLOWANCE MAILED</b>	
<input type="checkbox"/> The term of this patent shall not extend beyond the expiration date of U.S Patent. No. _____ _____ _____	_____ (Primary Examiner) (Date)			<b>ISSUE FEE</b>	
				Amount Due	Date Paid
<input type="checkbox"/> The terminal ____ months of this patent have been disclaimed.	_____ (Legal Instruments Examiner) (Date)			<b>ISSUE BATCH NUMBER</b>	

**WARNING:**

The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368. Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.

Form PTO-436A  
(Rev. 6/99)

FILED WITH: ☐ DISK (CRF) ☐ FICHE ☐ CD-ROM

(Attached in pocket on right inside flap)

**BEST AVAILABLE COPY**

**(FACE)**